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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/542,545 07/18/2005		Yousuke Nishimura	Q88808	6856
23373 SUGHRUE MI	7590 04/23/200 ON. PLLC	EXAMINER		
2100 PENNSY	LVANIA AVENUE, N	HU, HENRY S		
SUITE 800 WASHINGTO	N, DC 20037	ART UNIT	PAPER NUMBER	
		1713		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE .	DELIVERY MODE	
31 D	AYS	04/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application	No. Applicant(s)					
		10/542,545		NISHIMURA ET AL.				
		Examiner		Art Unit				
		Henry S. Hu		1713				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the c	over sheet with the c	orrespondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. o period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the mated patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS 1.136(a). In no event od will apply and will e tute, cause the applica	S COMMUNICATION  , however, may a reply be time  expire SIX (6) MONTHS from a  ation to become ABANDONEI	J.  the mailing date of this of U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed on Pro	e-Amendment d	of July 18 2005					
2a)□		nis action is nor						
3)	/ <del></del>			secution as to the	e merits is			
٥,۵	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dienositi	on of Claims	n panto quaj	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
=	Claim(s) 1-9 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
	6) Claim(s) is/are rejected.							
·	Claim(s) is/are objected to.	-1- 41	,					
8)[2]	Claim(s) <u>1-9</u> are subject to restriction and/or	election require	ement.					
Applicati	on Papers							
9)	The specification is objected to by the Exami	ner.						
10)	The drawing(s) filed on is/are: a) ☐ a	ccepted or b)	objected to by the E	Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the corre	ection is required	if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:								
	<ol> <li>Certified copies of the priority documents have been received.</li> </ol>							
	2. Certified copies of the priority docume	nts have been i	received in Application	on No				
	3. Copies of the certified copies of the pr	iority document	s have been receive	d in this National	Stage			
	application from the International Bure	•	` ''					
* S	ee the attached detailed Office action for a li	st of the certifie	d copies not received	d.				
Attachmen	t(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Pages No(s) Mail Date								
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	5'	Paper No(s)/Mail Da ) Notice of Informal Pa					
	r No(s)/Mail Date <u>2 pages</u> .		)					

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Claim 7) are pending now.

1. USPTO has received **Pre-Amendment** and <u>two</u> **IDS** (1 page each) filed on July 18, 2005, July 18, 2005 and March 29, 2007 respectively. **Claims 1, 3-6 and 9 were amended**, while no claim was cancelled or added. To be specific, the claim amendments were only to remove improper multiple dependency on dependent Claims 3-6 and 9 as well as to correct a typographical error on parent Claim 1. **Claims 1-9** with <u>two</u> independent claims (**Claim 1 and** 

## **DETAILED ACTION**

An action follows.

## Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1, this is based on the preliminary search done by the examiner.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted as following:

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I. Claims 1-6, drawn to <u>a process for preparing a fluorine-containing polymer</u>, which is a batch copolymerization process conducted under conditions of reduced temperature and reduced pressure following Peng-Robinson formula.

- II. Claims 7-9, drawn to a peroxide vulcanizable fluorine-containing elastomer comprising: (A) 20 to 90 % by mole of vinylidene fluoride and (B) 10 to 80 % by mole of hexafluoro-propylene. The number average molecular weight, VDF branch ratio and iodine content are as specified.
- 3. Where the group of inventions is claimed in one and the same international application, the requirement for unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features. The expression "special technical features" shall mean those technical features that define a contribution which each of the claimed inventions considered as a whole, makes over the prior art. The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, although they share the special technical feature, this special technical feature does not define a contribution over the prior art for the following reasons:
- 4. In view of international search report for <u>PCT/JP2004/000519</u> (WO 2004/065436 A1) and the references or articles cited in <u>two IDS'</u> filed so far by the Applicants, Claims 1-9 is either obvious or anticipated by following: JP 05-222130 A to Carlson, WO 00/47641 A1 to

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Saito et al., WO 01/34666 A1 to Tokuno et al., and WO 03/42259 A1 to Otoi et al. (all four are cited as X reference) as well as US 6,509,429 B1 (or its equivalent WO 00/01741) to Kitaichi et al., each individually or in combination. In summary, these methods have no common features in the preparation as well as its application since they are related to a specified method or a specified product. The scope of the claims, i.e., the metes and boundaries are distinct. Accordingly, the special technical feature linking the inventions does not provide a contribution over the prior art, and no single general inventive concept exists. Therefore the restriction is appropriate

- 5. Group I is found to be structurally distinct from Group II. To be more specific, fluorinated elastomer in Group II may be prepared by different chemistry other than the process of Group II, which is achieved specifically by applying a specified batch copolymerization process conducted under conditions of reduced temperature and reduced pressure following Peng-Robinson formula. The fluorinated elastomeric polymer in Group II is limited to copolymer of VDF/HFP with ratio as specified, while the process Group I is to prepare fluorinated elastomeric polymer in a polymerization condition following Peng-Robinson formula. Process of Group I can be used to prepare fluorinated elastomeric polymer other than copolymer of VDF/HFP from Group II.
- 6. Because these inventions are distinct for the reasons given above shown as different subject matters and the search required for each group is not required for other groups have

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acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

- 7. A telephone call was made to **Abraham J. Rosner (reg. # 33,276, tel: 202 293-7060)** on the date of October 20, 2006 to request an oral election to the above restriction requirement, but did not result in an election being made. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

## Conclusion

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10. Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Dr. Henry S. Hu whose telephone number is (571) 272-1103. The

examiner can be reached on Monday through Friday from 9:00 AM -5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu, can be reached on (571) 272-1114. The fax number for the organization

where this application or proceeding is assigned is (571) 273-8300 for all regular

communications.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Henry S. Hu

Patent Examiner, Art Unit 1713, USPTO

April 17, 2007

DÁVID W. WU